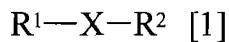


Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1. (Currently Amended) A method for deuteration of a compound represented by the general formula [1]:



comprising reacting the compound represented by the general formula [1] under neutral condition with a deuterated solvent other than D₂O₂ in the co-presence of only one activated catalyst selected from a palladium catalyst, a platinum catalyst, a rhodium catalyst, a ruthenium catalyst, a nickel catalyst and a cobalt catalyst,

wherein, R¹ represents an alkyl group, an alkyl group having at least one carbon-carbon double bond and/or at least one triple bond, an aralkyl group, or an aralkyl group having at least one carbon-carbon double bond and/or at least one triple bond;

R² represents an alkyl group or an alkyl group having at least one carbon-carbon double bond and/or at least one triple bond, an aryl group, an aralkyl group, an alkoxy group, an aryloxy group or a hydroxyl group;

X represents a carbonyl group or a hydroxymethylene group;

R¹ and R² may form an alicyclic ring together with a carbon atom contained in X; and

at least one group selected from the group consisting of R¹ and R² has, in an aliphatic portion or portions thereof, at least one multiple bond selected from the group consisting of a carbon-carbon double bond and a carbon-carbon triple bond,

provided that R² represents an alkyl group, an alkyl group having at least one carbon-carbon double bond and/or at least one triple bond, an aryl group, or an aralkyl group when X is a hydroxymethylene group, and

~~the carbon-carbon double bond and the triple bond are a double bond and a triple bond in an aliphatic portion or portions of the compound, respectively,~~

~~provided that when the compound represented by the general formula [1] has at least one carbon-carbon double bond and/or at least one triple bond, the catalyst activated catalyst is a catalyst activated in advance before the reaction step is performed is used as the activated catalyst.~~

2. (Original) The method for deuteration according to claim 1, wherein X is a carbonyl group in the general formula [1].

3. (Original) The method for deuteration according to claim 1, wherein X is a hydroxymethylene group in the general formula [1].

4. (Canceled)

5. (Previously Presented) The method for deuteration according to claim 1, wherein the deuterated solvent is deuterium oxide (D_2O).

6. (Previously Presented) The method for deuteration according to claim 1, wherein the only one activated catalyst is one obtained by activating a non-activated catalyst selected from a palladium catalyst, a platinum catalyst, a rhodium catalyst, a ruthenium catalyst, a nickel catalyst and a cobalt catalyst by contacting with hydrogen gas or heavy hydrogen gas.

7. (Canceled)

8. (Previously Presented) The method for deuteration according to claim 1, wherein the only one activated catalyst is a catalyst comprising an activated palladium based catalyst.

9. (Original) The method for deuteration according to claim 8, wherein the activated palladium based catalyst is an activated palladium carbon.

10. (Canceled)

11. (Previously Presented) A method for deuteration of tricyclo[5.2.1.0^{2,6}]decan-8-ol, comprising reacting tricyclo[5.2.1.0^{2,6}]decan-8-ol under neutral condition with a deuterated solvent other than D₂O₂ in the co-presence of palladium carbon as only activated catalyst.

12. (Original) Tricyclo[5.2.1.0^{2,6}]decan-8-ol wherein deuteration ratio thereof is 60% or more.

13. (Currently Amended) The method for deuteration according to claim 1, ~~provided that when the compound represented by the general formula [1] has at least one carbon-carbon double bond and/or at least one triple bond, wherein hydrogen gas [[or]]and heavy hydrogen gas [[is]]are~~ not present in a deuteration reaction system.

14. (Previously Presented) The method for deuteration according to claim 1, wherein the only one activated catalyst is a catalyst comprising an activated platinum catalyst.

15. (Previously Presented) A method for deuteration of tricyclo[5.2.1.0^{2,6}]decan-8-ol, comprising reacting tricyclo[5.2.1.0^{2,6}]decan-8-ol under neutral condition with a deuterated solvent other than D₂O₂ in the co-presence of platinum carbon as only activated catalyst.

16. (Previously Presented) The method for deuteration according to claim 1, wherein the deuterated solvent is other than D₂ and D₂O₂, and the reaction is carried out in an absence of an alkali metal deuteroxide.

17. (Currently Amended) The method for deuteration according to claim 1, wherein the compound is at least one selected from the group consisting of the compound that is decomposable with D₂O₂~~and the compound that has in the general formula [1] at least~~

~~one bond selected from the group consisting of a carbon-carbon double bond and a carbon-carbon triple bond.~~